

“ClearSpeed discloses record-breaking acceleration for credit risk analysis at High Performance on Wall Street: sets new standards in speed, price/performance, power efficiency and reliability”.

Monday September 22nd 2008: At High Performance on Wall Street, ClearSpeed Technology will announce new industry-leading results in the acceleration of computationally intensive financial codes such as credit risk analysis. Benchmarking a number of customer applications on ClearSpeed's latest product, the CATS-700, ClearSpeed will show results on 64-bit codes that far exceed all other solutions in the market, leading to faster, cheaper, more reliable solutions for financial markets around the world.

ClearSpeed is enabling multiple Fortune 1000 companies across the US, Asia and Europe to offer new financial instruments and products that were previously impossible to compute fast enough, giving them an edge over their competitors and offering unique value to their customers.

In one example, a Japanese Tier One investment bank's 64-bit credit risk analysis code was accelerated from 50 hours on a standard x86 desktop machine down to just 10 minutes on a single CATS-700 1U node, a speedup of 300X. In other examples speedups of 80X and 91X were achieved compared to the latest 8-core 3GHz x86 servers on 64-bit Monte Carlo codes.

A single 42U rack half filled with CATS-700 and half filled with standard servers would cost around \$600K and provide performance equivalent to 40 racks filled with the latest 3GHz 8-core x86 servers. The CATS-700 system would deliver initial capital savings of over \$9M and TCO savings over 3 years of over \$11M. The CATS-700 solution is also only 1/40th of the physical size and consumes 96% less energy than the unaccelerated system of equivalent performance.

These results far exceed what is possible with the latest 64-bit versions of Cell and graphics processors. For a 42U rack with equal numbers of servers and accelerators, the CATS-700 solution is 3x faster and 2.8x more power efficient than a system using IBM's latest 64-bit QS22 Cell blade, and 2.7x faster and 5x more power efficient than a system using Nvidia's latest 64-bit Tesla 1U GPU server.

CATS-700 includes hardware reliability features including Error Correcting Code (ECC) on all memories. These features solve the reliability problems that afflict consumer-grade GPU-based solutions and deliver the level of reliability financial customers require.

Information on the CATS-700

CATS-700 delivers 1.152 TFLOPS of 64-bit floating point performance in a 1U enclosure. It includes 24GBytes of ECC DRAM, typically consumes 300W and is programmed in C.

Information on ClearSpeed Technology

ClearSpeed Technology (LSE:CSD) delivers the world's most advanced parallel processing solutions for the most challenging applications ranging from commerce to science to security. ClearSpeed's products include chips, accelerator boards, rack modules, software and support. ClearSpeed has offices in Mountain View, California and Bristol, UK and has over 100 patents granted or pending. For more information, visit www.clearspeed.com.